SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14607-10-1029

Aluminiumprofile eloxiert

Product group: Metal profiles - Drywall Profiles

Repac PROFESSIONAL

Repac Montagetechnik GmbH & Co. KG
Ronnenberger Straße 15
30989 Gehrden

Product qualities:

- SHI Product Assessment 2024 ✓
- QNG Qualitätssiegel Nachhaltiges Gebäude ✓
- DGNB NEW CONSTRUCTION 2023 ✓
- DGNB NEW CONSTRUCTION 2018 ✓
- BNB-BN NEUBAU V2015 ✓
- EU taxonomy ✓
- BREEAM DE NEUBAU 2018 ✓
- LEED v4.1 (outside US) ✓

CERTIFIED SUSTAINABLE PRODUCT – SHI PRODUCT PASSPORT – SENTINEL HOLDING INSTITUT – www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 30 March 2026

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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SGS TÜV SAAR

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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Assessment
SHI Product Assessment		Indoor air neutral

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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien			QNG ready - Not relevant for assessment

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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	not applicable		Not relevant for assessment

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	not applicable		Not relevant for assessment

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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	not applicable	not applicable	Not relevant for assessment

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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	27 Anodized aluminum and passivated stainless steel surfaces	Heavy metals (chromium VI)	Quality level 5
Verification: Herstellererklärung vom 22.10.2024			

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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control		Substances according to Annex C	EU taxonomy compliant
Verification: Herstellererklärung vom 22.10.2024			

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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality			Not relevant for assessment

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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Assessment
EQ Credit: Low-Emitting Materials		Not relevant for assessment

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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, “Avoidance of Harmful Substances in Building Materials.” The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte

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Technisches Datenblatt

Repac Aluminium-Profile

Repac Aluminium-Profile werden aus der Legierung EN AW-6060 hergestellt.
Die Herstellungsweise ist das Strangpressen, bei dem ein erhitzter Aluminiumbolzen (450-500°C) unter hohem Druck (1600-6500 Tonnen, je nach Pressengröße) durch ein Profilwerkzeug gepresst wird, dessen Öffnung dem Querschnitt des Profils entspricht.

Legierung EN AW-6060:

Streckgrenze Rp 0,2, N/mm²	
Zustand T4	70
Zustand T6	190
Zugfestigkeit Rm, N/mm²	
Zustand T4	150
Zustand T6	215
Bruchdehnung, A5%	
Zustand T4	23
Zustand T6	10
Brinellhärte HB	
Zustand T4	43
Zustand T6	67
Dichte (kg/m³)	2700
Elastizitätsmodul (Mpa)	70.000
Ausdehnungskoeffizient	
20-100°C (°C-1)	23E-05
Thermische Leitfähigkeit	
20°C (W/mK)	200
Elektrische Leitfähigkeit	
% IACS	52
Schmelzpunkt (°C)	600-655

Um die Widerstandskraft der Oberflächen gegen Korrosion und mechanischen Verschleiß noch weiter zu erhöhen, ihr ein dekoratives Aussehen zu verleihen oder auf andere Weise die Eigenschaften der Oberfläche zu verändern, werden Repac Aluminium-Profile eloxiert.
Die Eloxierung (Anodisierung) ist ein elektrochemischer Prozess zum künstlichen Verdicken der Oxidschicht auf der Oberfläche des Aluminiums. Bei diesem Verfahren wird das Profil in ein elektrolytisches Bad gesenkt, an Gleichstrom angeschlossen und als Anode geschaltet. Während die Dicke des ursprünglichen natürlichen Oxidfilms 0,02 µm beträgt, misst die Schicht nach dem Verfahren zwischen 13 und 15 µm und wird während dieses Prozesses in die gewünschten Farbtöne, Silber, Sand, Gold, Bronze oder Edelstahl-Optik eingefärbt.
Die Anodisierung geschieht in einem geschlossenem System mit minimaler Emission und gilt daher als umweltfreundliche Art der Oberflächenveredelung.

Herstellererklärung

17.07.2025

Sehr geehrte Damen und Herren,

hiermit bestätigen wir, dass beim Eloxieren der Bodenprofile der Fa. Repac kein **Chrom-VI-oxidfreie Passivierungsmittel verwenden.** Zudem sind in unseren Artikeln keine **SVHC und CMR-Stoffe der Kategorien 1A/1B (<) 0,1 enthalten.**

Mit freundlichen Grüßen



Produktmanagement Profile

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